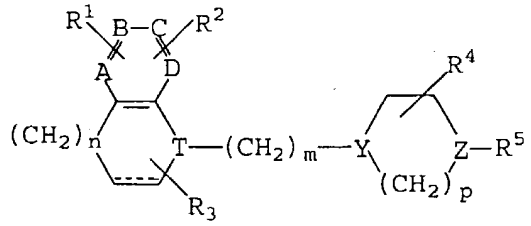
AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A ~~1,4-substituted cyclic amine derivative represented by the following~~ compound of formula (I):



(I)

wherein A, B, C, D, and T are the same or different from one another and each represents methine or nitrogen, provided that one and only one of them represents nitrogen;

the bond represented by the following formula:

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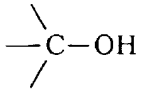
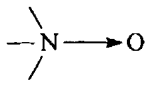
represents a single or double bond;

Y and Z are the same or different from each other and each represents methine, nitrogen, a group represented by the following formula:



or a group represented by the following formula:



provided at least one of them represents nitrogen;

R^1 and R^2 are the same or different from each other and each represents hydrogen, halogeno, hydroxy, lower alkylsulfonylaminoalkyl, lower halogenated-alkylsulfonylaminoalkyl, 2-pyrrolidinon-1-yl, 1-hydroxy-1-(methoxypyridyl)methyl, methoxypyridylcarbonyl, 1,3-propanesultum-2-yl, lower hydroxypiperidyl-carbonylalkyl, lower hydroxyalkylamidoalkyl, lower halogenated-alkylamidoalkyl, lower dihalogenatedalkylamidoalkyl, ~~lower heteroarylamidoalkyl,~~ lower hydroxyalkylamidoalkyl, optionally substituted amino, nitro, lower alkyl, lower alkoxy, lower acyl, lower alkoxyalkoxy, cyano, lower alkylsulfonyl, sulfonylamido, hydroxy-lower alkyl, hydroxy-lower alkoxy, lower alkoxycarbonylamino, lower alkylsulfonylamino, N-lower alkylalkylsulfonylamino, lower acylamino, optionally substituted aminoalkyl, optionally N-substituted lower acylaminoalkyl, optionally substituted aryl, optionally substituted arylsulfonylamino, lower alkylsulfonyloxy, hydroxyiminomethyl, (2-pyrrolidon1-yl)methyl, (2-piperidon-1-yl)methyl, optionally substituted heteroaryl, optionally substituted aralkyl, optionally substituted heteroarylalkyl, cycloalkylcarbonylaminoalkyl, optionally substituted ureido, optionally substituted ureido-lower alkyl, succinimido, (succinimido-1-yl)-
lower alkyl, amido, optionally substituted carbamoyl, optionally substituted carbamoyl-lower alkyl, optionally substituted

thiocarbamoyllower alkyl, formyl, aromatic acyl, heteroarylcarbonyl, halogenated lower alkyl, (2-imidazolidinon -1-yl)methyl, (2,4-imidazolidinedion-3-yl)methyl, (2-oxazolidon3-yl)methyl, (glutarimido-1-yl)methyl, optionally substituted heteroarylhydroxyalkyl, cyano-lower alkyl, 1-hydroxy lower cycloalkyl, (2,4-thiazolidinedion-3-yl)methyl, optionally substituted 4-piperidylmethyl, heteroarylacyl, pyrrolidinylcarbonyl-lower alkyl, optionally substituted aminosulfonylalkyl, carboxy-lower alkyl, or lower alkylamidoalkyl; or alternatively ~~R^1 and R^2 together may form optionally substituted alicycle,~~ optionally substituted heterocycle or alkylenedioxy, provided these rings may be substituted;

R^3 represents hydrogen, halogeno, lower alkyl, hydroxy, hydroxy-lower alkyl, lower alkoxy, formyl, optionally substituted aralkyloxy, hydroxy-lower alkoxy, optionally substituted sulfamoyl, or optionally N-substituted sulfamoyl-lower alkyl;

R^4 represents hydrogen, lower alkyl, hydroxy-lower alkyl, lower alkoxyalkyl, optionally aryl-substituted aryloxyalkyl, or optionally aryl-substituted aralkyloxyalkyl;

R^5 represents lower alkyl, lower acyl, lower alkoxycarbonyl, aromatic acyl, or a group represented by the following formula:

$$-Q^1-(CH_2)_s-Q^2-R^6$$

wherein Q^1 and Q^2 are both single bonds, or one of them is a single bond while the other represents oxygen, carbonyl, a group represented by -NHCO-, a group represented by $-NHSO_2-$, or a group represented by $>CH-R^7$, wherein R^7 represents hydroxy, lower alkyl or halogeno:

s represents 0 or an integer of 1 to 6; and

R^6 represents optionally substituted aryl, ~~optionally substituted heteroaryl,~~ optionally substituted benzoheteroaryl, 1,4-benzodioxanyl, 1,3-benzodioxolyl, benzothiazolyl, or cyano;

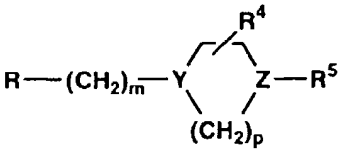
n represents 1;

m represents 0 or an integer of 1 to 6; and

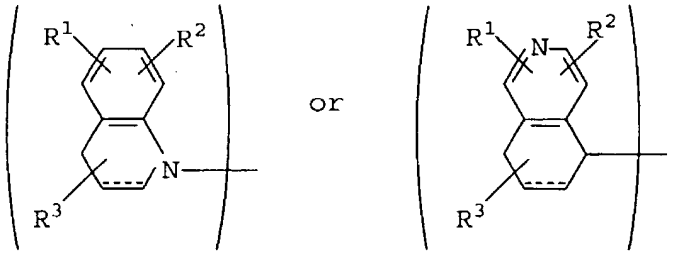
p represents an integer of 1 to 3,

or a ~~and~~ pharmacologically acceptable salt ~~salts~~ thereof.

2. (Currently Amended) A ~~1,4-substituted cyclic amine derivative represented by the following~~ compound of formula:



wherein R represents a substituent of the formula:



wherein the bond represented by the following formula:

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and R^1, R^2, R^3, R^4, R^5, Y, Z, m, and p are each as defined in claim 1, and pharmacologically acceptable salts thereof.

3. (Currently Amended) The ~~1,4 substituted cyclic amine derivative as set forth in~~ <u>compound of</u> claim 1 or a pharmacologically acceptable salt thereof, wherein m is 0 and p is 2.

4. (Currently Amended) The ~~1,4 substituted cyclic amine derivative as set forth in~~ <u>compound of</u> claim 1 or a pharmacologically acceptable salt thereof, wherein Y is methine and Z is nitrogen.

5. (Currently Amended) The ~~1,4-substituted cyclic amine derivative as set forth in in~~ compound of claim 1 or a pharmacologically acceptable salt thereof, which is a compound selected from among the following ones:

(267) 1-{1-[2-(4-methoxyphenyl)ethyl]piperidin-4-yl}-7-methoxy-1,2,3,4-tetrahydroquinoline,

(268) 1-{1-[2-(4-fluorophenyl)ethyl]piperidin-4-yl}-7-methoxy-1,2,3,4-tetrahydro-
quinoline,

(269) 1-[1-(4-cyanopropyl)piperidin-4-yl]-7-methoxy-1,2,3,4-tetrahydroquinoline,

(270) 1-{1-[2-(2-thienyl)ethyl]piperidin-4-yl}-7-methoxy-1,2,3,4-tetrahydroquinoline,

(271) 1-{1-[2-(4-fluorophenyl)ethyl]piperidin-4-yl}-7,8-dimethoxy-1,2,3,4-tetrahydroquinoline,

(272) 1-{1-[2-(4-fluorophenyl)ethyl]piperidin-4-yl}-7,8-methylenedioxy-1,2,3,4-
tetrahydroquinoline,

(273) 1-{1-[2-(4-fluorophenyl)ethyl]piperidin-4-yl}-7-methoxy-8-methyl-1,2,3,4-
tetrahydroquinoline,

(274) 1-{1-[2-(4-fluorophenyl)-2-oxoethyl]piperidin-4-yl}-7-methoxy-1,2,3,4-

tetrahydroquinoline,

(275) 1-{1-[2-(4-fluorophenyl)-2-hydroxyethyl]piperidin-4-yl}-7-methoxy-1,2,3,4-tetrahydroquinoline,

(276) 1-{1-[2-(4-fluorophenyl)-2-fluoroethyl]piperidin-4-yl}-7-methoxy-1,2,3,4-tetrahydroquinoline, and

(283) 5-{4-[2-(4-fluorophenyl)ethyl]piperazin-1-yl}-5,6,7,8-tetrahydroisoquinoline.

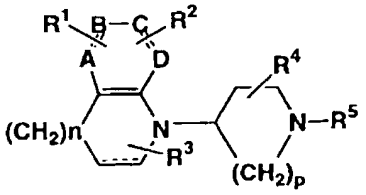
6. (Currently Amended) A pharmaceutical composition comprising a therapeutically effective amount of the ~~1,4-substituted cyclic amine derivative or salt as set forth in~~ compound of claim 1 or its salt in combination with a pharmaceutically acceptable carrier.

7. (Currently Amended) An agent for treating~~,~~ and ameliorating~~, and preventing~~ diseases against which serotonin antagonism is efficacious, which ~~contain~~ contains as the active ingredient the ~~1,4-substituted cyclic amine derivative as set forth in~~ compound of claim 1 or a pharmacologically acceptable salt thereof.

8. (Currently Amended) A compound ~~An agent~~ for treating~~,~~ and ameliorating~~, and preventing~~ spastic paralysis, which comprises ~~contain~~ as the active ingredient ~~the 1,4 substituted cyclic amine derivative as set forth in~~ an effective amount of the compound of claim 1 or a pharmacologically acceptable salt thereof.

9. (Currently Amended) A muscle relaxant composition which contains as the active ingredient ~~the 1,4 substituted cyclic amine derivative as set forth in~~ an effective amount of the compound of claim 1 or a pharmacologically acceptable salt thereof.

10. (Currently Amended) A process for producing a ~~1,4 substituted cyclic amine derivative represented by the following~~ compound of the formula:



wherein the bond represented by the following formula:

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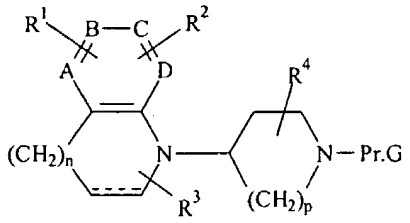
and A, B, C, D, R^1, R^2, R^3, R^4, R^5, n, and p are each as defined in claim 1, which comprises removing, if necessary, the

protecting group from a 1,4-substituted cyclic amine derivative (IX) represented by the following formula:

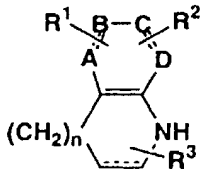


(IX)

wherein the bond represented by the following formula:

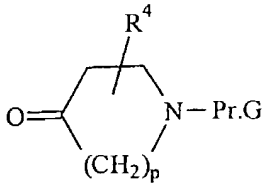
and A, B, C, D, R^1, R^2, R^3, R^4, n, and p are each as defined in claim 1; and Pr.G represents hydrogen or a protecting group, and then reacting the same with L-R^5 wherein R^5 is as defined in claim 1; and L represents a leaving group.

11. (Currently Amended) A process for producing ~~1,4-substituted cyclic amine derivative (X), as set forth in~~ a compound of claim 1, which comprises reacting a fused cyclic amine represented by the following formula:



wherein the bond represented by the following formula:

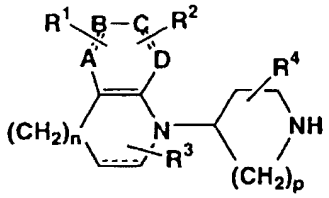
and A, B, C, D, R^1, R^2, R^3 and n are each as defined in claim 1 with a cyclic ketone (VIII) represented by the following formula:



(VIII)

wherein R^4, p, and Pr.G are each as defined in claim 1 in the presence of a reducing agent to thereby give a 1,4-substituted cyclic amine derivative (IX), removing, if necessary, the protecting group therefrom and further reacting the same with $L\text{-}R^5$.

12. (Currently Amended) A ~~4-substituted cyclic amine derivative represented by the following~~ compound of the formula:



wherein the bond represented by the following formula:

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and A, B, C, D, R^1, R^2, R^3, R^4, n, and p are each as defined in claim 1, provided that the case where R^1, R^2, R^3 and R^4 are all hydrogen atoms is excluded.

13. (Currently Amended) A method for ~~treating a disease to which~~ antagonizing serotonin ~~antagonism is efficacious~~, which comprises administering an effective dose of the ~~1,4 substituted cyclic amine derivative as set forth in~~ compound of claim 1, or a pharmacologically acceptable salt thereof, to a person in need of such treatment.

14. (Currently Amended) The ~~1,4 substituted cyclic amine derivative as set forth in~~ compound of claim 1, in which the bond represented by the following formula in the formula (I):

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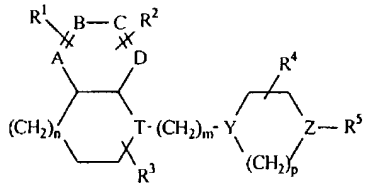
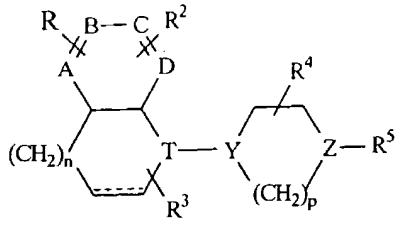
is a single bond, represented by the formula (XXI):



(XXI)

or a pharmacologically acceptable salt thereof.

15. (Currently Amended) The ~~1,4-substituted cyclic amine derivative as set forth in~~ compound of claim 1, in which m is 0 in the formula (I), represented by the formula (XXII):

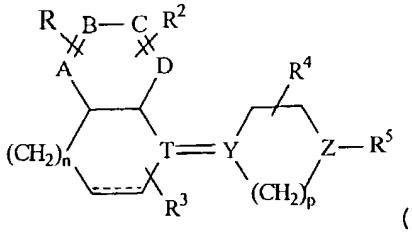


(XXII)

or a pharmacologically acceptable salt thereof.

16. (Currently Amended) The ~~1,4-substituted cyclic amine derivative as set forth in~~ compound of Claim 1, in which m is 1 to 6 in the formula (I) or a pharmacologically acceptable salt thereof.

17. (Currently Amended) A ~~1,4-substituted cyclic amine derivative represented by~~ compound of the formula (XXIII):



(XXIII)

or a pharmacologically acceptable salt thereof.

18. (Currently Amended) The ~~1,4-substituted cyclic amine~~

~~derivative as set forth in~~ compound of claim 1, in which the bond represented by the following formula in the formula (I):

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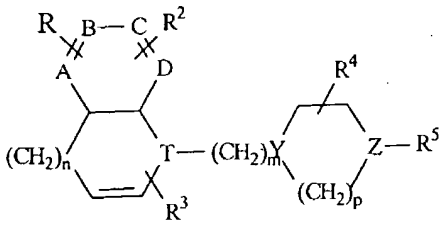
is a double bond, represented by the formula (XXIV):



(XXIV)

or a pharmacologically acceptable salt thereof.

19. (Currently Amended) The ~~1,4-substituted cyclic amine derivative as set forth in~~ compound of claim 1, in which the T is nitrogen.